

ADOPTION OF THE ILLINOIS PLUMBING CODE 2004 & CHICAGO PLUMBING CODE 2003

That a certain code, three (3) copies of which are now on file and have been on file for a period of not less than 21 days in the office of the Village Clerk of the Village of Tinley Park, Cook and Will Counties, Illinois, being entitled and designated **Illinois Plumbing Code 2004 & Chicago Plumbing Codes 2003**, be and the same is hereby adopted as a portion of the Comprehensive Building Code for the Village of Tinley Park, Cook and Will Counties, Illinois, and each and all of the regulations for the control of buildings and structures as herein provided; and each and all of the regulations, provisions, conditions, and terms of **Illinois Plumbing Code 2004 & Chicago Plumbing Codes 2003**, are hereby referred to, adopted and incorporated herein and hereby made a part hereof as if fully set out herein, except as hereinafter deleted, modified or amended.

The **Illinois Plumbing Code 2004 & Chicago Plumbing Codes 2003** shall set forth the rules and regulations for the installation of plumbing, sewer and water distribution equipment or systems in all buildings and structures, except as modified elsewhere in this Tinley Park Comprehensive Building Code. See CHAPTER IV, Plumbing, Sewers and Water Distribution.

CHAPTER IV - PLUMBING, SEWERS, AND WATER DISTRIBUTION

SECTION 400 – GENERAL REQUIREMENTS:

A. General

The current provisions of the Illinois Plumbing Code 2004 and or City of Chicago Building Code, Chapter 82, Plumbing Provisions, and Chapter 83, Water Supplies and Distribution Systems 2002 have been adopted by the Village of Tinley Park and apply to all installations as though fully written and set forth herein, except as specifically noted otherwise in this code.

B. Other Regulations

1. No provisions of this code are intended or shall be construed to negate or overrule the applicable regulations of the Metropolitan Water Reclamation District of Greater Chicago.
2. All interior floor drains must be connected to the sanitary sewer system.

C. Internal Flood Control

1. It shall be unlawful to construct any basement for any structure of any kind within the Village of Tinley Park unless there is provided internal flood control and protection in the nature of that commonly known as overhead sewers, together with such ejector pump or other device as may be necessary to make such overhead sewers operational. No permit shall be issued for the construction of any building containing a basement unless the plans provide for the protection as set forth in this paragraph.
2. Ejector basins to have gas-tight covers, and shall be vented to outside.

D. Excavations

It shall be unlawful to make any opening, excavation in, or tunnel any public street, alley, sidewalk, parkway, or other public place in the village, without having first secured a permit therefore. Applications for such permits shall be made to the Village Clerk, and shall specify the intended location and purpose of the excavation. The Village Clerk shall immediately notify the Director of Public Works of the application for said permit.

In each case the applicant shall agree to pay all of the cost of restoring such street, alley, sidewalk, parkway or other public place and the surface thereof to the condition that existed before the opening excavation or tunnel was made. No such permit shall be issued until the applicant has deposited with the Director of Public Works the sum of Five Hundred Dollars (\$500.00) for each such opening, excavation or tunnel, which such deposit shall be deposited by the applicant used by the Village for the purpose of paying the cost of restoring such street, alley, sidewalk, parkway or other public place and the surface thereof to the condition that existed before the opening, excavation or tunnel, was

made, provided that the applicant shall, in each case, do all necessary backfilling or cause the same to be done. All backfilling shall be done with care and caution and only bank or lake sand shall be used as such backfill. After the backfilling has been properly done, any materials excavated, or not used, shall be removed from the location of said excavation to such streets, alley, sidewalk, parkway or other public place, the Village may use its own employees and equipment and make reasonable charges therefore, of it may engage the services of other persons and equipment and charge the cost thereof to the applicant. Any balance of said deposit remaining after the deduction of such charges of costs shall be returned to the applicant. In case said applicant shall restore said street to its original condition said applicant shall be entitled to the return of his deposit after one year from the date of application or restoration, whichever is later; otherwise said deposit may be used as specified herein.

No such permit shall be issued unless the applicant has on file with the Village and in full force and effect, a bond in the amount of Twenty Thousand Dollars (\$20,000.00) with surety to be approved by the Village, conditioned to indemnify the Village against any and all loss or liability resulting from the making of such opening, excavations, or tunnel.

SECTION 401 – CODE MODIFICATION & ADDITIONS

A. Additional Materials accepted in sanitary drainage, waste and vent systems above ground in buildings three stories or less:

1.

Materials	ASTM	FSS	Other Standards
PVC-DWV Schedule 40 pipe	D-2665-67 and the Seal of Approval of the NSF	LP 320a	CS272-65
PVC-CWV Fittings	D-2665-67 and the Seal Of Approval of the NSF	LP 320a	CS272-65
Solvent Cement	D-2564-67 and the Seal of Approval of the NSF		

2. Types of Joints

Plastic pipe and fittings of the approved type shall be solvent welded using procedures and materials recommended by the manufacturers under the specifications set forth under ASTM D-2564-67 (PCV). No Schedule 40 pipe shall be threaded on the job site. All such transitions to other materials shall be with approved adapter fittings only.

3. Support

Plastic piping shall be supported in like manner as other materials now accepted by the plumbing code. In no case shall the horizontal supports exceed four (4) feet, four foot (4'0") intervals.

4. Cutting, Reaming, Storing, etc.

All general use practices shall conform to the installation instructions of the Plastic Pipe Institute, and/or the respective manufacturers of the pipe and fittings.

5. Size of Plastic Pipe

Plastic main soil pipes in all structures must be not less than three inches (3"). Refer to Section 82.50A&B in Chicago Plumbing Code 2002 Edition for size. All underground plumbing shall be minimal four (4) inches in size.

6. Roof Terminals of Vent Stacks

a. Roof terminals shall be made watertight, at joint between stack and roof, where vent passes thru the roof, by flashing onto roof covering.

b. Flashing for cast iron or steel pipe shall be not less than four pound sheet lead; for copper pipe shall be not less than #18 B & S gauge sheet copper or brass; for PCV - DWV pipe may be pre-formed neoprene flashing, or equal, approved by Building Official, and shall be solvent welded to pipe as required in paragraph A-2, "Type of Joints". Flashing of PCV - DWV pipe with sheet lead, copper or brass shall be acceptable. Galvanized sheet iron will not be accepted.

c. Wet venting is not allowed.

B. Footing Drains required in all structures having a basement and/or crawl space. See Section 303-I.

Footing drains shall be connected to sump pumps, and discharge may be tied into storm sewers, if approval is obtained from the Director of Public Works or drainage ditches. No footing drains, or drainage tile, shall be connected to any sanitary sewer. Plastic pipe materials permitted.

C. Downspouts

All downspouts, or roof drains, shall discharge on to the ground or may be tied into storm sewers, if approval is obtained from the Director of Public Works or drainage ditches. No downspouts, or roof drains, shall be connected to a sanitary sewer. Downspouts, or roof drain which discharge on to the ground shall be arranged so as to be at least five (5) feet from any property line and not discharging onto adjoining property.

D. Floor Drains

Floor drains in basements shall be connected to ejector pumps and shall discharge to the sanitary sewer.

E. Areaway Drains

Drains are required in all window wells and in all exposed exterior stairwells. They shall be connected to the sump pump and shall be discharged to a storm sewer or drainage ditch.

F. Sump Pumps and Ejector Pumps

Sump pumps installed to receive and discharge ground waters, or other storm waters, shall be connected to the storm sewer or discharged into the rear yard at least ten (10) feet from all property lines. Ejector pumps installed to receive and discharge floor drain flow, or other sanitary sewage shall be connected to the sanitary sewer. A pump shall be used for one function only, either the discharge of storm water or the discharge of sanitary sewage.

G. Water Meters

1. Shall be purchased from the Village of Tinley Park Public Works Department and installation shall be inspected by same.
2. Meters shall be installed, and paid for, by Plumbing Contractor. Installations must comply with Public Works Department regulations.
3. In all buildings, provide a conduit through the exterior wall for the positioning and installation of outside water meters.

H. Water Service and Distribution

1. No water service to a commercial building, or building of other than a single family residence, shall be provided by less than a one (1) inch diameter pipe.
2. Water service to single family residential buildings shall not be less than one (1) inch diameter.
3. Water service to all buildings, other than single family residence, shall be a minimum of 1" diameter.
4. All water services from main to meter shall be type "K" copper, or Ductil iron pipe.
5. All water distribution lines (hot and/or cold) from meter to tap, when underground, or under concrete slab on fill, shall be type "K" copper, and when above ground (or slab) shall be type "L" copper tubing. When water lines are connected to equipment, having piping material other than copper, a dielectric union or fitting shall be installed between the dissimilar metals.
6. Minimum size of curb valve (B-box) shall be 1 1/2 inches.

I. Equipment

1. All equipment, devices or fixtures installed in the plumbing, sewage, and water distribution, shall be suitable for use in the City of Chicago and shall be as listed in the Chicago Plumbing Testing Laboratory Manual.
2. In all new construction and in all repair and/or replacement of fixtures or trim, only fixtures and trim not exceeding the following flow rates and/or water usage shall be installed. These rates are based on a pressure at the fixture of 40 to 50 psi.

Water Closets, tank type

Water Closets, flushometer type

Urinals, tank type

Urinals, flushometer type

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Shower heads

Laboratory, sink faucets

4. Lavatories for public use. In addition to the requirements listed above, in all new construction and replacement of fixtures, faucets of lavatories located in restrooms intended for public use shall be of metering or self closing type.
5. Car Wash Installation. In all new construction and replacement of fixtures, car wash installation shall be equipped with a water recycling system.
6. Hose bibbs and vacuum breakers. All hose bibbs must have a vacuum breaker. Hose bibbs in or protruding from residences may have the vacuum breaker attached to the hose bibb or the vacuum breaker may be located on the house side of the water meter, between the meter and a shut off valve. The installation of vacuum breakers for commercial and industrial water users shall adhere to the Chicago Plumbing Code 2002.
7. Approved backflow preventers shall be installed in all sprinkler lines whether they are supplied from the domestic water system or a separate fire service line.

J. Registration and Bond

All contractors performing plumbing work within the boundaries of the Village of Tinley Park must have a valid Plumbing license, issued by the State of Illinois. Prior to the issuance of a building permit the contractor shall register, with the Building Department, the license number and effective date of same.

All contractors laying sewer tile or performing sewer work shall be licensed by the Village of Tinley Park to perform such work.

All Sewer contractors performing sewer work shall obtain a permit and file, with the Building Department, a surety bond in the amount of \$20,000.00, secured by a surety company which is acceptable to the Village of Tinley Park, Illinois. Bond shall be payable to the Village and in effect guarantee that the contractor will comply with all the requirements of applicable Village ordinances and codes.

Plumbing and Lawn Sprinkler contractors are required to submit to the Building Department a copy of their State of Illinois Public Health Registration.

K. Inspections

No underground work, or work under a slab on fill, shall be covered, or concealed, until work has been inspected and approved by plumbing inspector.

All sewer taps and/or water taps shall be approved by the Village of Tinley Park Public Works Inspector before being covered.

No piping of any type shall be concealed in walls, partitions, ceilings or furred spaces until piping has been inspected.

Plumbing inspector shall make final inspection after fixtures are set and trim is installed and no Certificate for Occupancy will be issued without plumbing inspector's final approval.

Contractor shall arrange for all inspections required by the Metropolitan Water Reclamation District of Greater Chicago and shall submit Certification of Approval by MWRD to the Building Department before Occupancy Certificate can be issued.

SECTION 402 - GREASE TRAP REQUIREMENTS:

Plumbing systems for institutions or commercial establishments in which grease, fats, culinary oils, or similar waste products from kitchens or food processing areas are wasted, or in which grease, fats, or culinary oils are wasted in connection with utensil, vat, dish, or floor cleaning processes, shall include grease interceptors. All waste lines and drains carrying grease, fats, or culinary oils, in the above type establishments shall be directed to one or more interceptors.

All required grease interceptors shall comply with the following:

Material and Covers. Grease interceptors shall be constructed of durable, corrosion-resistant materials and shall have water-tight covers securely fastened in place.

Minimum size. A grease interceptor installed on the same floor as the fixture shall have one-half the liquid holding capacity of the fixture. A grease interceptor located on a floor below the fixture shall have sixty percent of the liquid holding capacity of the fixture. To determine the liquid holding capacity in gallons of a plumbing fixture, multiply the length by the width by the height in inches, and divide by 231. Where two (2) or more sinks or receptacles are connected to an interceptor the liquid holding capacity shall be based on the combined volume of the fixtures served.

No grease interceptor shall receive the discharge from a food waste disposal or a commercial dishwashing machine.

The flow rate of the interceptor shall be sufficient to handle the maximum demand of the connected system.

All interceptors shall be installed in an accessible location to permit the convenient removal of the lid and internal contents.

SECTION 403 - DEFINITION:

Grease trap sludge: shall mean the solid, lighter than water fraction of wastewaters from the handling, processing, preparation, cooking or consumption of food that are discharged to a pre-treatment unit or device commonly referred to as a grease trap. The principle components of grease trap sludge are fats, oils and greases.

SECTION 404 - GREASE INTERCEPTORS:

All restaurants and food service establishments are required to have a grease interceptor, with size to be determined by Illinois State Code.

The only exception to this would be a coffee shop that serves only coffee and pre-packaged foods and does not cook or prepare any food on site. If the establishment serves ANYTHING other than coffee and pre-packaged foods (not made on the site), i.e., soup, sandwiches, etc., they shall be required to have a grease interceptor.

SECTION 405 - GREASE TRAP DISPOSAL:

A licensed Professional Service must empty the grease traps and dispose of the sludge in an environmentally safe manor. This shall be done on a monthly basis unless the Village of Tinley Park, upon receipt of proof from the owner or operator or on the basis of its own inspection of the grease trap, determines that a less or more frequent maintenance schedule is required to achieve the purpose of this amendment and to prevent the discharge of fats, oils, and grease in the Village of Tinley Park's sewer system. The establishment must keep a manifest of the cleaning and emptying of the grease trap. This manifest will be kept on site and made available to Village officials.

END OF CHAPTER IV